

ATEX Installation drawing 9203QA01 – V6R0

For safe installation of 9203 the following must be observed. The module shall only be installed by qualified personnel who are familiar with the national and international laws, directives and standards that apply to this area.

For installation in Zone 2 / Division 2 the following must be observed. The 4501 programming module is to be used solely with PRelectronics modules. It is important that the module is undamaged and has not been altered or modified in any way. Only 4501 modules free of dust and moisture shall be installed.

ATEX Certificate: KEMA 07ATEX 0147 X

Marking 9203B II (1) G [Ex ia Ga] IIC/IIIB/IIA II 3G Ex nA nC IIC T4 Gc (1) D [Ex ia Da] IIC (1 M1) [Ex ia Ma] I

Marking 9203A II 3G Ex nA nC IIC T4 Gc

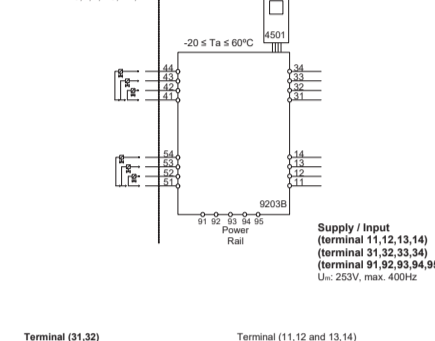
Standards: EN 60079-0 : 2012, EN 60079-11 : 2012, EN 60079-15 : 2010

Type	Installation	Current Output	Channels	Input
9203	Non Ex / Zone 2	:A Low current	:1 Single :B Double	:A Standard :B PNP :1
	Ex-Barrier / Zone 2	:B High current	:2 Single :A NPN	:A NPN :2

Installation notes:
Install in pollution degree 2, overvoltage category II as defined in EN60664-1
Do not separate connectors when energized and an explosive gas mixture is present.
Do not mount or remove modules from the Power Rail when an explosive gas mixture is present.
Disconnect power before servicing.
The wiring of unused terminals is not allowed.
In type of protection [Ex ia Da] the parameters for intrinsic safety for gas group IIB are applicable.

For installation in Zone 2, the module shall be installed in an enclosure in type of protection Ex n or Ex e, providing a degree of protection of at least IP54. Cable entry devices and blanking elements shall fulfill the same requirements.

For installation on Power Rail in Zone 2, only Power Rail type 9400 supplied by Power Control Unit type 9410 (Type Examination Certificate KEMA 07ATEX0152 X) is allowed.



Terminal (31,32) Supply: Voltage: 19.2 – 31.2 VDC Power max.: 3.5 W	Terminal (11, 12 and 13, 14) Input: Voltage: max 28VDC Trig: NPN Low < 2V, High > 4V Trig: PNP Low < 8V, High > 10V
Terminal (33,34) Status Relay: Voltage max.: 125 VAC / 110 VDC Power max.: 62.5 VA / 32 W Current max.: 0.5 AAC / 0.3 ADC	Zone 2 installation Non Hazardous location Voltage max.: 125 VAC / 110 VDC Power max.: 16 VA / 32 W Current max.: 0.5 AAC / 1 ADC

IECEx Installation drawing 9203QI01-V6R0

For safe installation of 9203 the following must be observed. The module shall only be installed by qualified personnel who are familiar with the national and international laws, directives and standards that apply to this area.

For installation in Zone 2 / Division 2 the following must be observed. The 4501 programming module is to be used solely with PRelectronics modules. It is important that the module is undamaged and has not been altered or modified in any way. Only 4501 modules free of dust and moisture shall be installed.

IECEx Certificate: IECEx KEM 09.0001X

Marking 9203Bxxx [Ex ia Ga] IIC/IIIB/IIA Ex nA nC IIC T4 Gc [Ex ia Da] IIC [Ex ia Ma] I

Marking 9203Axxx Ex nA nC IIC T4 Gc

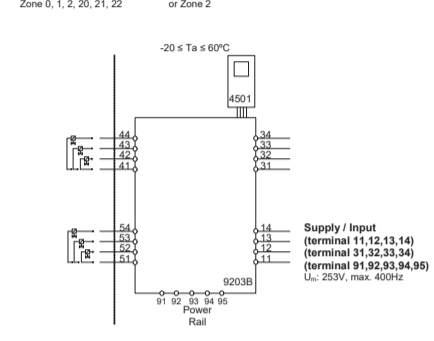
Standards: IEC60079-15:2010, IEC60079-11:2011, IEC60079-0:2011

Type	Installation	Current Output	Channels	Input
9203	Non Ex / Zone 2	:A Low current	:1 Single :B Double	:A Standard :B PNP :1
	Ex-Barrier / Zone 2	:B High current	:2 Single :A NPN	:A NPN :2

Installation notes:
Install in pollution degree 2, overvoltage category II as defined in IEC60664-1
Do not separate connectors when energized and an explosive gas mixture is present.
Do not mount or remove modules from the Power Rail when an explosive gas mixture is present.
Disconnect power before servicing.
The wiring of unused terminals is not allowed.
In type of protection [Ex ia Da] the parameters for intrinsic safety for gas group IIB are applicable.

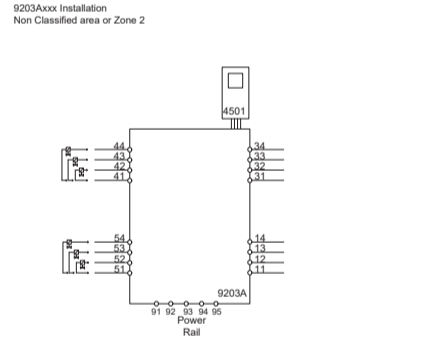
For installation in Zone 2, the module shall be installed in an enclosure in type of protection Ex n or Ex e, providing a degree of protection of at least IP54. Cable entry devices and blanking elements shall fulfill the same requirements.

For installation on Power Rail in Zone 2, only Power Rail type 9400 supplied by Power Control Unit type 9410 (IECEx Certificate of Conformity IECEx KEM 08.0025X) is allowed.



Terminal (31,32) Supply: Voltage: 19.2 – 31.2 VDC Power max.: 3.5 W	Terminal (11, 12 and 13, 14) Input: Voltage: max 28VDC Trig: NPN Low < 2V, High > 4V Trig: PNP Low < 8V, High > 10V
Terminal (33,34) Status Relay: Voltage max.: 125 VAC / 110 VDC Power max.: 16 VA / 32 W Current max.: 0.5 AAC / 0.3 ADC	Zone 2 installation Non Hazardous location Voltage max.: 125 VAC / 110 VDC Power max.: 16 VA / 32 W Current max.: 0.5 AAC / 1 ADC

9203B1A, 9203B1B	Co	Lo	Lo/Ro	9203B2A	Co	Lo	Lo/Ro
Terminal 41-42/51-52	28V IIC 80nF	4.2mH	54μH/D	28V IIC 80nF	4.2mH	54μH/D	44μH/D
Io 93mA IIB 640nF	16.8mH	218μH/D	Io 115mA IIB 640nF	10.8mH	176μH/D	Po 0.65W IIA 2.1μF	32.6mH 436μH/D
Io 93mA IIB 640nF	16.8mH	218μH/D	Po 0.81W IIA 2.1μF	20.8mH 353μH/D			



Terminal (31,32) Supply: Voltage: 19.2 – 31.2 VDC Power max.: 3.5 W	Terminal (11, 12 and 13, 14) Input: Voltage: max 28VDC Trig: NPN Low < 2V, High > 4V Trig: PNP Low < 8V, High > 10V
Terminal (33,34) Status Relay: Voltage max.: 125 VAC / 110 VDC Power max.: 62.5 VA / 32 W Current max.: 0.5 AAC / 0.3 ADC	Zone 2 installation Non Hazardous location Voltage max.: 125 VAC / 110 VDC Power max.: 16 VA / 32 W Current max.: 0.5 AAC / 1 ADC
Terminal (41, 44 / 51, 54) Umux: 28 V Imax: 135 mA Pmax: 0.95 W	

FM Installation drawing 9203QF01 – V6R0

For safe installation of 9203 the following must be observed. The module shall only be installed by qualified personnel who are familiar with the national and international laws, directives and standards that apply to this area.

For installation in Zone 2 / Division 2 the following must be observed. The 4501 programming module is to be used solely with PRelectronics modules. It is important that the module is undamaged and has not been altered or modified in any way. Only 4501 modules free of dust and moisture shall be installed.

o-FM-us Certificate: 3035277

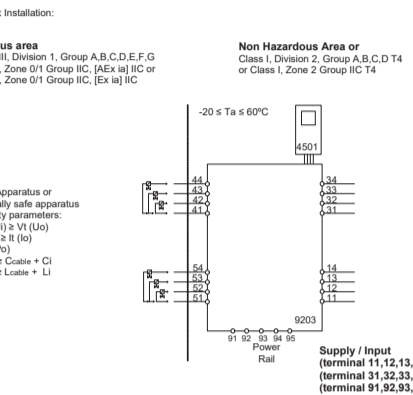
Type Installation: Non Ex / Zone 2, Ex-Barrier / Zone 2

Current Output: :A Low current, :B High current

Type	Installation	Current Output	Channels	Input
9203	Non Ex / Zone 2	:A Low current	:1 Single :B Double	:A Standard :B PNP :1
	Ex-Barrier / Zone 2	:B High current	:2 Single :A NPN	:A NPN :2

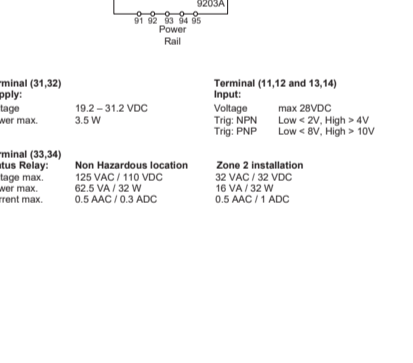
Installation notes:
The installation and wiring shall be in accordance with the Canadian Electrical Code for Canada and American National Standard NFPA 70, Article 500 or 505 for installation in USA.
The module must be supplied from a Power Supply having double or reinforced insulation.
The use of stranded wires is not permitted for mains wiring except when wires are filled with cable ends.
For installation on the 9400 Power Rail the power must be supplied from Power Control Module Unit 9410.
Install in pollution degree 2, overvoltage category II.
The module must be installed in an enclosure suitable for the environment for which it is used.
For installation in Zone 2 or Division 2, the module must be installed in a suitable outer enclosure according to the regulations in the CEC for Canada or NEC for USA.
The module is galvanically isolated and does not require grounding.
Use 60 / 75 °C copper conductors with wire size AWG: (25-14).
The maximum internal Power dissipation for adjacent modules is assumed to be max. 2W each.
Warning: Substitution of components may impair intrinsic safety and / or suitability for Div. 2 / Zone 2.
Warning: To prevent ignition of explosive atmospheres, disconnect power before servicing and do not separate connectors when energized and an explosive gas mixture is present.
Warning: Do not mount or remove modules from the Power Rail when an explosive gas mixture is present.

Hazardous area: Class I/II/III, Division 1, Group A,B,C,D,E,F,G or Class I, Zone 0/1 Group IIC, (A,Ex ia) IIC or or Class I, Zone 0/1 Group IIC, (Ex ia) IIC



Terminal (31,32) Supply: Voltage: 19.2 – 31.2 VDC Power max.: 3.5 W	Terminal (11, 12 and 13, 14) Input: Voltage: max 28VDC Trig: NPN Low < 2V, High > 4V Trig: PNP Low < 8V, High > 10V
Terminal (33,34) Status Relay: Voltage max.: 125 VAC / 110 VDC Power max.: 62.5 VA / 32 W Current max.: 0.5 AAC / 0.3 ADC	Zone 2 or Division 2 installation: Non Hazardous location: Voltage max.: 125 VAC / 110 VDC Power max.: 16 VA / 32 W Current max.: 0.5 AAC / 1 ADC

Model 9203B1A & 9203B1B	Co/Lo	Lo/Ro	9203B2A	Co/Lo	Lo/Ro
Terminal 41-42/51-52	28V IIC 80nF	4.2mH 54μH/D	28V IIC 80nF	2.69mH 44μH/D	Io 93mA IIB 640nF
Io 93mA IIB 640nF	16.8mH 218μH/D	Io 115mA IIB 640nF	10.8mH 176μH/D	Po 0.65W IIA 2.1μF	32.6mH 436μH/D
Io 93mA IIB 640nF	16.8mH 218μH/D	Po 0.81W IIA 2.1μF	20.8mH 353μH/D		



Terminal (31,32) Supply: Voltage: 19.2 – 31.2 VDC Power max.: 3.5 W	Terminal (11, 12 and 13, 14) Input: Voltage: max 28VDC Trig: NPN Low < 2V, High > 4V Trig: PNP Low < 8V, High > 10V
Terminal (33,34) Status Relay: Voltage max.: 125 VAC / 110 VDC Power max.: 62.5 VA / 32 W Current max.: 0.5 AAC / 0.3 ADC	Zone 2 installation Non Hazardous location: Voltage max.: 125 VAC / 110 VDC Power max.: 16 VA / 32 W Current max.: 0.5 AAC / 1 ADC
Terminal (41, 44 / 51, 54) Umux: 28 V Imax: 135 mA Pmax: 0.95 W	

INMETRO Desenhos para Instalação 9203QB01 – V5R0

Para instalação segura do 9203B o manual seguinte deve ser observado. O módulo deve ser instalado somente por profissionais qualificados que estão familiarizados com as leis nacionais e internacionais, diretivas e normas que se aplicam a esta área.

Para a instalação na Zona 2 o seguinte deve ser observado. O módulo de programação de 4501, deve ser utilizado apenas com os módulos PRelectronics. É importante que o módulo esteja intacto e não tenha sido alterado ou modificado de qualquer maneira. Apenas os módulos 4501 livres de poeira e umidade devem ser instalados.

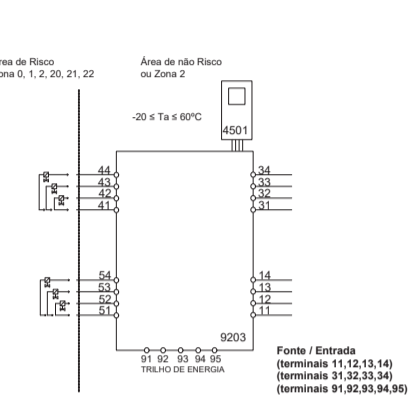
INMETRO Certificado: NCC 12.1306X

Marcas: [Ex ia Ga] IIC/IIIB/IIA Ex nA nC IIC T4 Gc [Ex ia Da] IIC

Normas: IEC60079-15:2005, IEC60079-11:2011, IEC60079-0:2011, IEC60079-26:2006

Notas de instalação:
Instalação em grau de poluição 2, categoria de sobre-tensão II conforme definido no IEC 60664-1
Não separe conectores quando energizado ou quando uma mistura de gás explosivo estiver presente.
Não monte ou remova módulos do trilho de alimentação quando uma mistura explosiva de gás estiver presente.
Desligue a alimentação antes da manutenção.
A fonte de Loop e terminais de entrada de corrente para o mesmo canal não deve ser aplicada ao mesmo tempo.
Em tipo de proteção [Ex ia Da] os parâmetros para a segurança intrínseca para grupo de gás IIB são aplicáveis.
Para a instalação em Zona 2, o módulo deve ser instalado em um invólucro certificado conforme as normas da série ABNT NBR IEC 60079 que proporcione um grau de proteção de pelo menos IP54. Dispositivos de entrada de cabo e elementos de vedação devem cumprir com os mesmos requisitos.
Para a instalação de trilho de energia na Zona 2, apenas o trilho de alimentação Rail 9400 fornecido pela Unidade de Controle de Potência 9410 é permitido.

Hazardous area: Class I, Division 1, Group A,B,C,D,I4 or Class I, Zone 2 Group IIC T4



Terminal (31,32) Fonte: Voltagem: 19.2 – 31.2 VDC Potência máx.: 3.5 W	Terminais (11, 12 e 13, 14) Entrada: Voltagem: máx. 28VDC Gatilho: NPN Baixo < 2V, Alto > 4V Gatilho: PNP Baixo < 8V, Alto > 10V
Terminais (33,34) Status Relay: Voltagem máx.: 125 VAC / 110 VDC Potência máx.: 62.5 VA / 32 W Corrente máx.: 0.5 AAC / 0.3 ADC	Instalação Zona 2 Não Perigoso: Voltagem máx.: 125 VAC / 110 VDC Potência máx.: 16 VA / 32 W Corrente máx.: 0.5 AAC / 1 ADC

9203B1A, 9203B1B	Co	Lo	Lo/Ro	9203B2A	Co	Lo	Lo/Ro
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Io 93mA IIB 640nF	16.8mH	218μH/D	Io 115mA IIB 640nF	10.8mH	176μH/D	Po 0.65W IIA 2.1μF	32.6mH 436μH/D
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